Leopard DI560 T4 SURFACE DRILLS

TECHNICAL SPECIFICATION

Leopard DI560 is a diesel powered, self-contained crawler mounted drilling rig designed for DTH blasthole drilling in the mining, quarry and construction industries. The drill is equipped with an operator's cabin, fixed boom, dry dust collector and drill pipe changer. The design and the lay-out are according to latest state-of-art.

KEY FEATURES	
Hole diameter:	90 - 165 mm 3½" – 6 ½"
Drill pipes:	76, 89, 102 and 114 mm 3", 3½", 4" and 4½"
DTH-Hammer	4", 4" HP, 5", 6"
Engine output:	328 kW (Tier 4 Final)
Air delivery	24,5 m3/min at 24 bar 862 cfm at 348 psi 21,6 m3/min at 30 bar 763 cfm at 435 psi
Production capacity:	1,85 Mt/a, one shift
Total weight :	24 050 kg

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ROTARY HEAD	
Rotary head	HTRH6
Drill pipes	76, 89, 102, 114 mm 3", 3½", 4", 4½"
Operating pressure	180 bar
Rotation speed	0…80 rpm
Maximum rotation torque	4300 Nm
Hammer lubrication	Air / oil mist
Flushing	Air
Weight	478 kg

FEED	
Feed type	Chain feed
Total length	10050 mm
Rotary head travel	5990 mm
Length of tubes	5000 mm
Hose reel	Standard
Feed extension travel	1200 mm
Feed/pull out force	32 kN
Feed swing	-30/+95°
Feed tilt	-35/+93°

PIPE CHANGER	
Pipe changer type	Carousel
Storage capacity	7+1 (76 to 102 mm pipes) 5+1 (114 mm drill pipe)
Pipe length	5000 mm
Max. hole depth	40 m *

BOOM	
Boom type	Fixed
Boom extension	500 mm (Optional)
Boom reach	3,6 m
Boom swing	0/+20°
Collaring height	+ 0,5 / -3,8 m
Horizontal holes	To the right

CABIN	
Cabin type	HVC550
Certificates	FOPS and ROPS
Noise level in the cabin	<80 dB (A)
Air conditioning	Standard
Pressurization	Standard
Seat	Ergonomic, adjustable
Vibration dampening	Standard
Windows	Safety laminated, tinted

POWERPACK	
Engine type	Caterpillar C13 (Tier 4 Final)
DEF tank	AdBlue 47 l
Number of cylinders	6
Engine output	328 kW / 1800 rpm (30 bar) 328 kW / 2050 kW (24 bar)
Transmission type	Direct
Screw compressor type	GHH CF 1000H
Air filters	2 pcs, dry type
Fuel tank	930 litres

HYDRAULIC SYSTEM	
Filtration rate	10 micron
Cooling capacity	Up to +55°C ambient
Hydraulic oil tank	350 l
Shank lubrication device	SLU 50

CONTROL SYSTEM	
Control system type	PLC controlled proportional electro- hydraulics
Tramming/boom/ drilling control	PLC controlled
User interface	Electro proportional joysticks and screen
Antijamming system	Standard
Collaring control	Automatic
Voltage	24 VDC

DUST COLLECTOR	
Dust collector type	X-150
Capacity/vacuum	51 m3/min at 500 mm WG
Filter elements/material	4 pcs / fiber
Total filter surface	16 m2
Primary cyclone	Standard
Movable suction head	Standard

CARRIER	
Track type	FL 6
Grouser plate width	400 mm
Ground contact length	2450 mm
Ground pressure	1.2…1.3 kg/cm2
Ground clearance	360 mm
Oscillation angles	+/- 10°
Tramming force	140 kN
Max. tramming speed	1.6 / 3.2 km/h

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STANDARD COMPONENTS
Rotary head HTRH6.0
Chain feed, with hose reel
Safety cage for feed
Pipe changer, carousel type
Fixed boom
Cabin HVC550
Carrier, track mounted
Powerpack, diesel driven, hydraulic pumps and onboard compressor
Dust collector X-150
Hydraulic system, load sensing
Control system
Working lights, 11 pcs, 3 pcs in engine compartment
1 Set Manuals, paper copy
1 Set Manuals, CD rom

THE JAWS FOR DRILL STEELS

DRILL STEEL TYPE	DRILL STEEL DIAMETER	RECOMMENDED HOLE DIAMETER
Pipes	76/89 mm	89 - 127 mm 3½" - 5"
Pipes	102/114mm	114 - 165 mm 4½" - 6 ½"

SELECTION OF OPTIONS
Additional tool box below cabin
Radio with CD-MP3 player
Reversing camera
Rock shield for lights and lower part of the window
Roller blinds for cabin windows
Vacuum cleaner for cabin
GPS aiming device for TIM and TIMi inclined holes
TIM 5200 for vertical holes
TIM 5300 for vertical holes and depth measuring
TIM 5600 for vertical and horizontal holes and depth measuring
TIM 6300 for inclined holes and depth measuring
TIM 6500 for inclined holes, depth measuring and laser level
TIM3D hole navigation system
DTH hammer service tool (requires radio remote control option)
Horizontal drilling kit
Kit for alternative pipes, each
Pipe winch (requires radio remote control option)
Thread greasing
Telescopic boom
Anti-freeze system for thread greasing
Central lubrication system Sandvik
Electric fuel filling pump
Electric hydraulic oil filling pump
Electric water filling pump
Fast fill connection for engine coolant, hydraulic and engine oils
Fast fill connection for fuel Wiggins
Guides for grousers
Hand-held led working light with accumulator
Hydraulic rear ground support
Hydraulic winch (requires radio remote control option)
Manual compressor oil filling pump
Pressure washer (with water injection option only)
Radio remote control for carrier and pipe winch and hammer service tool
Single bar grouser plates
Towing hook
Xenon lights, 11 pcs
Led lights, 9 pcs
Disengagement clutch for compressor, manual
Ether starting aid for engine without ether bottle
Fuel powered engine heater, extra large
Fuel powered engine heater, large
Jump start device (high current el. socket)
Water injection system
Grinder Sandvik RG420H
Extra bit basket
Extra manuals, price will be added according to pricing sheet
First service kit for DI560
Service agreement - select level from extra item
SanRemo - select level from extra item

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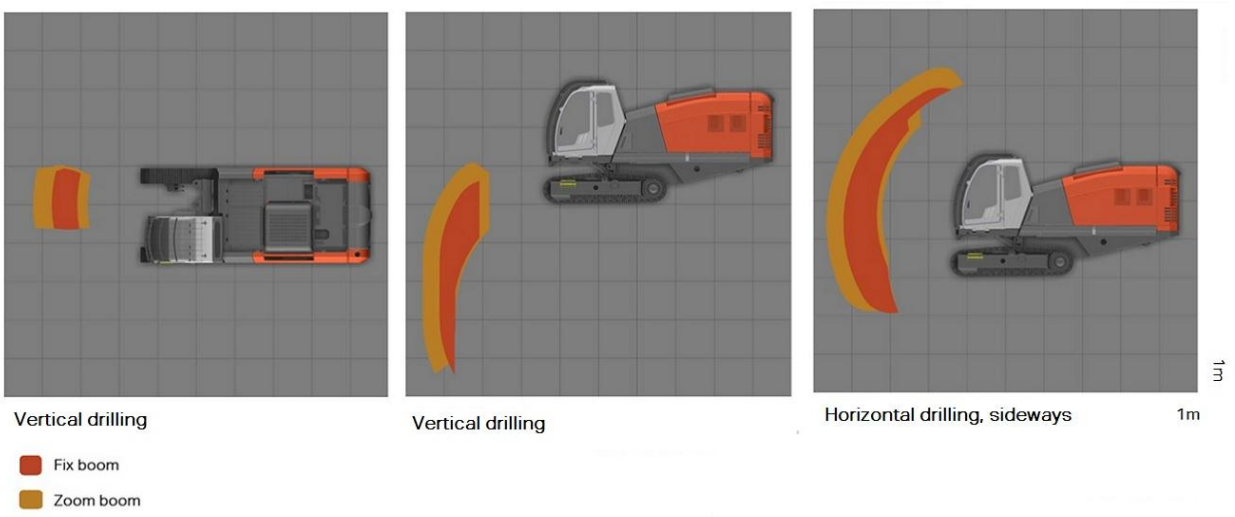
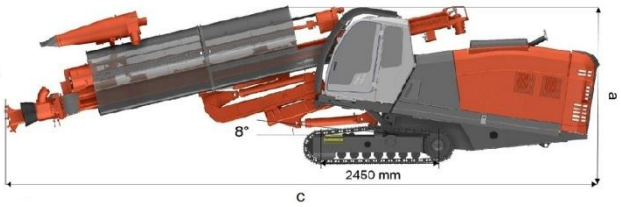
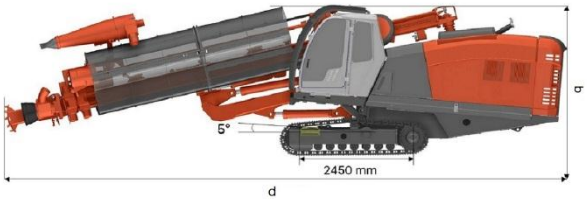
COVERAGE AREA AND DIMENSIONS



Zoom boom



Fix boom



DIMENSIONS	
Weight	24 050 kg
Width	2.49 m
Height	3.37 m/3.29 m
Total length	c/d, 12.6 m/12.1 m

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